

Feb 1, 2021 This survey specifically covers a variety of energy efficiency techniques, the utilization of renewable energy sources, interaction with the smart grid (SG), and the ?

Jun 15, 2018 This paper aims to consolidate the work carried out in making base station (BS) green and energy efficient by integrating renewable energy sources (RES). Clean and green ?

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Dec 31, 2021 Then, it proposed a 5G energy storage charge and discharge scheduling strategy. It also established a model for 5G base station energy storage to participate in coordinated ?

May 13, 2024 A cellular network, also known as a mobile network, is a form of wireless communications that operates over discrete geographic areas, or "cells", each of which is ?

Jun 21, 2023 This study builds a carbon emission assessment model for the base station construction based on the life cycle assessment method, and takes 5G base station in ?

Dec 16, 2023 An intelligent base station is designed to use artificial intelligence (A.I.) and machine learning techniques to optimize its performance and improve overall energy ?

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ?

Jan 23, 2023 Abstract?The fifth generation of the Radio Access Network (RAN) has brought new services, technologies, and paradigms with the corresponding societal benefits. However, ?

Dec 21, 2020 Environmental Engineering (EE); Measurement method for energy efficiency of wireless access network equipment Dynamic energy performance measurement method of 5G ?

Oct 27, 2025 Energy consumption is among the major problems faced by cellular operators. In metropolitan areas, cellular network is divided into smaller cells due to high traffic. During low ?

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Sep 22, 2024 1. Introduction In recent years, with the rapid development of communications technology, 5G BSs are being deployed on a large scale. The complexity of 5G technology ?

Mar 31, 2024 Therefore, in response to the impact of communication load rate on the load of 5G base stations, this paper proposes a base station energy storage auxiliary power grid peak ?

Mar 21, 2025 Abstract. Utilizing unmanned aerial vehicle (UAV) to carry 5G base stations to build emergency communication networks can flexibly provide stable and reliable wireless ?

Aug 4, 2025 Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the ?

Aug 1, 2025 Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state ?

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